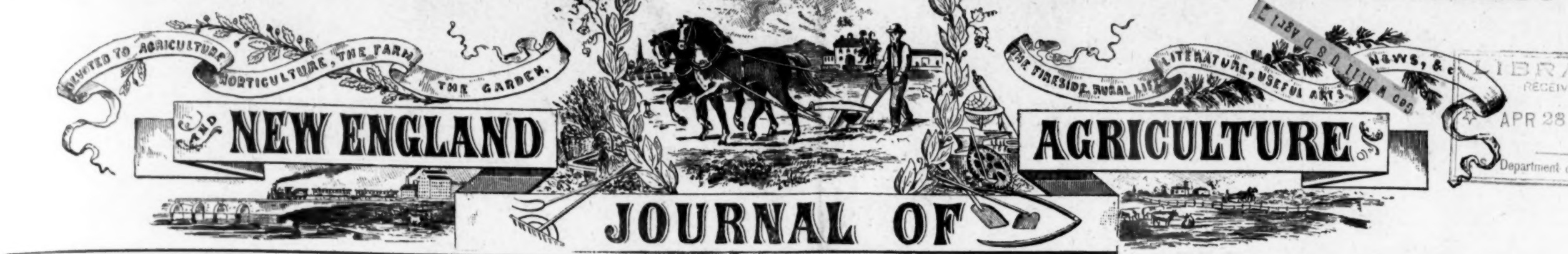


# MASSACHUSETTS PLOUGHMAN



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MASSACHUSETTS PLOUGHMAN  
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one side of the paper, and on one side only.  
Correspondence from particular farmers, giving  
the results of their experience, is solicited.  
Letters should be signed with the writer's real  
name, in full, which will be printed or not,  
at the writer's wish.

THE PLOUGHMAN offers great advantages to ad-  
vertisers. Its circulation is large and among the  
most active and intelligent portion of the com-  
munity.

## AGRICULTURAL.

### A Boom for Farming.

It is the almost universal complaint of  
farmers that while they get no more and in  
many kinds of products less for what they  
grow, the price of farm labor not only in-  
creases, but is not so good as it used to be.  
This last half of the proposition is doubtful.  
Farm labor is higher than formerly, as  
other and better avenues of employment  
are opened to the active and enterprising.  
So many of these have removed to the  
cities to engage in other branches of indus-  
try that the homely and severe manual  
work on the farm seems less attractive  
than it used to be, and is avoided by  
most who can do so. We think that now  
this tendency to cities has received a check,  
and that the desire to get back to country  
life and labor is increasing. But if farm-  
ers do not take great care this tendency is  
likely to be checked very often. Men  
used to city life can hardly be hired to work  
with clumsy and ineffective tools. They  
ought not to be expected to do so. And  
besides this they should be made to feel a  
personal interest in the work that they are  
doing, and this will greatly promote their  
efficiency, making their labor more profit-  
able to themselves and their employers.

This interest can best be promoted where  
entire confidence exists on both sides by  
making the wages in part dependent on the  
season. The farmer hires in early spring,  
not knowing what the crop he grows will  
be worth, or even whether he will have any  
crop at all. The only certainty he can see  
is the contract price for the labor he em-  
ploys. Help hired by the week is or ought  
to be paid by the month and according to  
the farmer's household very often needs  
little during the summer, and in olden times  
preferred to have the full amount in a  
lump sum in the fall. It was thus that many  
farmers got their start in accumulating cap-  
ital, especially those who loaned their cap-  
ital on good security with interest. Money  
accumulates rapidly when used in this way.

Very often the hired man has more saved  
at the result of his summer's work than his  
employer has been able to save after paying  
all the family expenses and the hired help.  
There is some mismanagement when this is  
the fact. In most cases the farmer who  
does not make it wise as much as any help  
he hires is working and owning too many  
acres. Many farmers have a horror of sell-  
ing land, and will not do it at any price that  
men with small means can afford to pay.  
They know that building lots in cities sell  
at high prices, and they are apt to mark up  
the price when any one wants to buy to as  
near the city limit as they think they can.

Much more depends on the character of the  
propheser than on the price he pays.  
An honest and industrious man who moves  
into a farming neighborhood makes all  
the property there more valuable. Men  
who are idle, dissolute and vicious depre-  
ciate not only farm property, but all prop-  
erty wherever he goes. The men who talk  
about population making property more  
valuable only look at half the truth. It all  
depends on what kind of population is  
referred to. A colony of lepers or depre-  
dators would value property less. It is  
our great cities would bring the highest  
prices. It is rather where most money is  
spent on buildings and improvements that  
land is the dearest. Nearness to commer-  
cial centers used to be thought all im-  
portant. Now the same benefit is derived  
from use of telegraphs and telephones  
and from steam and electric cars, which build  
up the suburbs at the expense of what used  
to be the old business centers.

These same transportation and message  
facilities are bringing city and country in-  
creasingly closer together. The time is  
drawing near when the farmer will be  
able to sell his produce at a great  
proportion of the large part of their large  
cities will spend a large part of their sum-  
mer vacation in the country, not merely

boarding, as many of them do now, but  
spending their whole summer or year on  
places which they own. When this occurs  
there will be less isolation in farm life, for  
it will be so closely in touch with most  
other city advantages will be accessible in  
the country as they now are in the city.  
When this time comes it must make farm  
lands much more valuable than they are  
now, and the majority of those who work  
them will be satisfied with fewer acres and  
the intensive culture which can then be  
given them.

Man's first home on this planet was, ac-  
cording to all tradition, in a garden of de-  
lights that in our Bible is called the Garden  
of Eden. After an experience of most  
varied sorts, lasting many thousand years,  
man is again learning that to be a gardener  
and in close touch with nature is his hap-  
piest and safest position. Much of the cul-  
tivation of the earth in future will be in  
glass. It is so already in the vicinity of  
Boston and other large cities, where green-  
houses bring the delights of the summer sea-  
son into the winter when all nature is wrapped  
in the cold of winter. We learn from our  
friends in Florida that even there they are  
preparing to grow oranges and bananas  
under some protection, as being cheaper and  
safer than building fires for that purpose.  
It is probably the New Englanders in  
Florida, who know how largely glass is  
used for the growing of flowers and veg-  
etables, who introduced this to the people of  
Florida. If it is successful there, why  
cannot this method be used in many other  
places with equal advantage? As the hot-  
houses in any neighborhood are increased  
they help to moderate the severity of cold  
in winter in their vicinity. So the general  
building of greenhouses helps those who do  
not use them directly.

### Silos and Ensilage.

The history of the silo affords many  
instructive and valuable lessons. Like all  
new things of merit it was taken up by  
enthusiasts, and its advantages much over-  
estimated. Certain results appeared to  
come from the feeding of silage which could  
not be accounted for in any other way than  
by the conclusion that fodder of any kind  
was very much improved by being placed in  
a silo. The advocates of the silo, believing  
these views, of course sought to push the  
feeding of silage upon the attention of the  
people all they possibly could. These facts  
on the one hand and the natural caution  
of the more conservative class of farmers,  
backed by those deep thinking people  
whose judgment told them there could  
be nothing added to the food supplies of  
any fodder by placing it in a silo, and by  
the analysis of the chemist, led to severe  
criticism of the method, and bitter discus-  
sions ensued. Some of those who were  
opposed to silos claimed that their intro-  
duction would be actually detrimental to the  
live stock interests of the country, and their  
utmost efforts to convince farmers that  
they had no use for them. These discus-  
sions tended to bring the silo more to the  
attention of the general public. People  
who were not directly interested began to  
think and talk about it, and in this way its  
introduction was hastened.

Its merits became known, it passed its  
experimental stage, and has so far become a  
permanent part of our farm economy that  
I have yet to find a man who has abandoned  
the well-built silo because of any dissatisfaction  
with the food it afforded or with the method.  
The well-built silo, properly filled with corn  
or other fodder at the right stage of growth,  
affords a food for stock which in my judgment  
cannot be equaled by any other method.

The facts are certain facts relative to the silo  
that have been so well established that they  
need no further proof, and I believe Mr. J. H.  
Alford formulated them very fully in some  
rules which he laid down in a lecture deliv-  
ered in Maine in 1884.

1. Silos may be made of any of the vari-  
ous building materials, and some very  
cheaply and cheaply constructed have been  
found to do good service.

2. Silos may be above ground, or under  
ground, or partly both; they should be  
water tight and air tight, and preferably  
frost proof, although the latter point is not  
essential.

3. The situation, form and construction  
of the silo, and the arrangement for filling,  
covering and emptying, should be largely  
governed by local conditions.

4. Several small silos, preferably con-  
nected, are better than one large one, and  
the depth should be considerably greater  
than the length, width or diameter.

5. Silos may be filled slowly or quickly,  
in all weathers, and heavily weighted or  
not weighted at all, the silage produced will  
vary in condition and quality, but these  
variations of management do not vary  
materially affect the result.

6. Any plant or vegetable product good  
for cattle food when green or fresh may  
be preserved as silage in an edible and  
excellent condition throughout the year or  
for several years.

7. As a rule all horses, mules, cattle and  
sheep, swine and poultry, are fond of silage,  
if its material is such as is ever eaten by  
them. Most farm animals prefer it to the  
best forage, and often prefer it to good  
roots.

8. The best time to cut any plant to make  
good silage is when the plant approaches  
maturity, and is beginning to decrease in  
its percentage of water content.

9. The cost of preserving a given crop as  
silage does not materially differ from cut-  
ting the same crop by drying, in a suitable  
season; but crops can be ensiled and pre-  
served in seasons when they would be lost  
if drying was attempted.

10. An acre of corn as silage will weigh  
four times as much as the same crop dried  
as fodder.

11. An acre of corn field cured, stored in  
the most compact manner possible, will  
occupy a space eight to ten times as great as  
if in the form of silage.

12. In feeding the best results follow a  
moderate ration of silage rather than its  
entire substitution for dry, coarse fodder.

13. Silage, and especially good corn  
silage, when compared with dry corn fodder  
or other feeding stuff, produces results so  
satisfactory as to surprise the chemist, and  
which chemistry cannot explain.

14. A silo or two, well built, but not too  
large or too expensive, are convenient and  
economical, on most farms, to save crops  
which at times might otherwise be lost, if  
not to preserve some crops specially grown  
for silage.

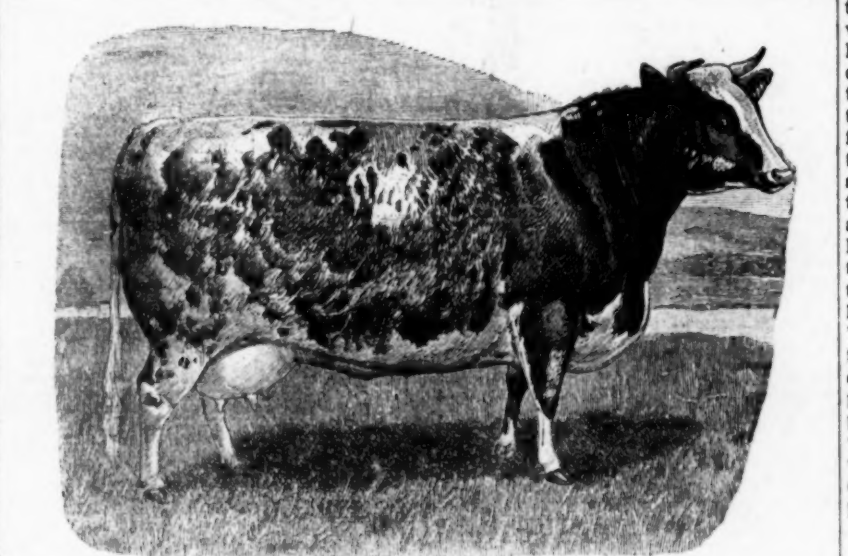
In reviewing these rules somewhat in de-  
tail, I may say I believe that silos built of  
wood are preferable, that durability should  
not be sacrificed to cheapness, and that, gen-  
erally speaking, if corn is put in the silo at  
the period of maturity indicated, there will  
be heat enough in the silage to prevent  
frosting. Silos built entirely above ground  
are to be preferred. Slow filling, without  
tramping, will, as a rule, insure a sweeter,  
lighter colored silage. Corn is the silage

of quicklime and dissolve in a barrel of 40  
or 50 gallons of water. For use on potatoes  
increase the copper sulphate to six pounds.  
This mixture is not an insecticide, but strictly  
a fungicide. Its object is to destroy those  
crops which attack either fruit or tree. It  
should be always on hand from very early  
in the spring until winter. It is often  
desired to use Bordeaux in connection with  
an insecticide; in that case add to the above  
mixture four ounces of Paris green or of  
London purple. In this case you have a  
mixture for destroying leaf-eating insects  
and those fungi that attack fruit or tree.

Third—It is advisable frequently to use a  
copper mixture, after fruit has developed  
some size, that will not stain the fruit.  
For this purpose use five ounces of copper  
carbonate and two quarts of ammonia in  
the same sized barrel of water. This mix-  
ture is suitable for use in a greenhouse.

Fourth—The common Paris green mixture  
made by mixing one pound of Paris green  
or London purple and one pound of lime in  
200 gallons of water. The quantity of lime  
may be considerably increased. For a fifty  
gallon barrel take one-eighth of a pound of  
Paris green or London purple.

Fifth—Kerosene emulsion is made by



SHORTHORN HEIFER, SOQUET.

for this section of country. Silage has  
proved valuable to me for cows, horses,  
swine and poultry. Its great value comes in  
as a food for young stock, affording a nutri-  
ent, palatable food at a period of their  
growth when it is the most necessary.

Silage is to be preferred to roots for all  
stock, sheep only excepted, and costs on  
our average farms not more than 60 per  
cent. as much as roots. The time for put-  
ting corn in the silo is correctly stated in  
rule eighth, and I would be inclined to let  
the growing process go as far as possible  
without danger of the silage rotting. I do  
not believe in the addition of water when  
filling, except in cases where the fodder is  
very badly dried by being frosted. The  
economy of space as indicated by rule  
eighth is a very important factor. Silage  
should never be used as an exclusive ration,  
but may be used for at least one-half of the  
corn feed, affording a material saving.

In all cases it is advisable to  
have your first application include  
Bordeaux mixture, because fungi are  
liable to appear very soon after foliage has  
got well under way in the spring. It will  
always do a vast amount of harm before it  
is detected. Fungus development must be  
looked for at almost any time throughout  
the summer, according to the weather.  
Whenever the conditions are favorable it  
will be developed one year on the apple  
trees, another on grapes and another on  
plums.

The application of sprayed mixtures is  
very largely increasing. No one can suc-  
ceed in fruit growing without he accepts of  
the necessity. The apple we must spray  
for the codling moth, but moth and scale.  
The cherry must be sprayed for rot, for  
apple and for scale. The currant must be  
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the red rot and burn it. Spray your straw-  
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and blight, and your roses for mildew, slug  
and aphid—E. P. Powell, in New York  
Tribune.

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The Silo's Construction.  
Under ordinary conditions the silo is a  
practical and economical method of preserv-  
ing fodder, but in its construction one  
should strive to reduce the amount of losses  
to the lowest possible amount. There are  
very few silos that are absolutely perfect,  
that is, as air tight as a fruit can or jar.  
This, however, is what every one is labor-  
ing to do when he builds one, and the  
nearer he approaches this ideal the less  
will his loss prove. The more successful  
we are in keeping the air from the body of  
the fodder after it is cut and stored away,  
the less likely will it be to decay or lose  
any of its nourishing qualities. Leave the  
fodder exposed to the air and it dries up,  
and with the evaporation of the moisture  
from it a good deal of the nourishing ele-  
ments will disappear also. If a small loop-  
hole is allowed in the silo, the destructive  
fermentation soon begins, and this can be  
checked only by shutting out the air. Cracks  
and knot holes are therefore the weak  
points in every silo, and more than one  
large mass of ensilage has been ruined  
through ignorance or neglect of these  
points.

In selecting the corn or other fodder for  
the silo, it is quite essential that it should  
have arrived at a certain stage of maturity.  
Chemical changes begin in the silo shortly  
after the fodder is put in, even if the place  
is absolutely air tight, and these changes  
must be allowed for. Fermentation of a  
certain order must begin, and the heat of  
the mass will increase as to cause this.  
The more water there is in the ensilage, the  
greater will these chemical changes be, and  
in some instances they would destroy the  
fibre of the food. Corn cut before it has  
properly matured, indicated by the glass  
or denting of the kernel, has too much  
water in it to make good ensilage. When  
pressed into the silo, the water is forced  
out of the stalks and settles gradually  
at the bottom of the mass. This great mass  
of water at the bottom of the silo always  
causes trouble, and in nine cases out of 10  
produces sour ensilage. Sometimes the  
sourness may not extend far up, but it is  
pretty sure to cause more or less mischief.  
Besides this, young corn fodder is de-  
stined to the full amount of nutriment. On  
the other hand if we let the corn get much  
beyond the stage of maturity indicated,  
there will not be sufficient water in it to  
preserve it. The stalks will be stiff and un-  
yielding, and they will not be pressed down  
enough to make a compact mass. The result  
will be that there will be too much air in  
the silo and mould is very apt to form.  
These few points in regard to the silo  
should be watched and guarded against  
carefully, if we would have perfect ensilage  
for next winter's feeding.

A. E. BARNETT.

Dogwood, and Killing it Out.  
The variety of the sumac family that is  
known in different localities under various  
names, such as "poison sumac," "poison  
oak" and "dogwood," is exceedingly  
plenty in some of the swamps of eastern  
Massachusetts. In some instances this  
weed makes nearly half the shrub growth.  
Its graceful central tufts of flowers and  
seeds make it quite attractive, and after the  
first frost, the brilliant gold and scarlet  
color of its leaves has led many an unwary  
one to gather them, to their after great per-  
sonal sorrow.

The subtlety of the poison emanating  
from this plant is something wonderful.  
There are well-authenticated instances  
where persons have been affected by it

when they have never come in contact with  
the plant itself. An album of colored  
leaves was once handed to a botanist ac-  
quainted of mine, with the request that he  
would examine it to see if there were any  
poisonous leaves in the collection, as several  
who had handled it had been poisoned, and  
could not trace their affliction to any other  
source. A glance brought to light several  
leaves of the dogwood, brilliant in their  
scarlet and gold attractiveness.

It is certainly to be regretted that there  
is not, in our system of school studies, a de-  
partment giving sufficient instruction rela-  
tive to what is and what is not poisonous  
among our native animals, insects and  
plants, to enable the student to protect  
himself from all harm, and, at the same  
time, prevent unnecessary fear.

While a member of our Massachusetts  
Senate, nearly a quarter of a century ago, I  
got a proposition embodying this idea  
through the committee on education, but  
there it stopped. The utter ignorance and  
consequent helplessness in this department  
of knowledge on the part of those who have  
received the best that education can do in  
this respect, I once saw strongly  
illustrated in the case of a young man who  
is now one of the most eminent lawyers of  
New York city.

He invited me to admire a large bouquet,  
which he had just collected, made up of  
wild flowers and ornamental growths from  
the swamp near by. When I told him that  
his fine centrepiece was the poisonous dog-  
wood, he dropped the mass instantly, ex-  
claiming with chagrin, "Why, I gotterribly  
poisoned by that last year!"  
Now, as to the matter of exterminat-  
ing this nuisance, my experience, though  
limited, has given me some striking results.  
Several winters ago I put on a pair of mil-  
lions, and armed with an axe, went into one  
of my swamps and cut down every clump  
of dogwood in it, being very careful not to  
come in contact with the fresh-cut wood,  
either by hand or face. I found some speci-  
mens fully six inches in diameter. The ef-  
fect of that cutting must have been not far  
from extermination, for in my rambling  
over that region in recent years I have not  
noticed a single live specimen.

S. W. CHAMBERS.  
Marblehead, Mass.

Live Stock Notes.  
The Western pork grower, who raises pigs  
primarily to consume a part of their own  
crop, look upon the fattening of pigs and the  
consequent increase of their bank account  
as of only secondary importance, merely  
incidental to the first. They like, if they  
have a number of brood sows, to have them  
farrow nearly all at one time, first, because  
when turned into one pasture or divided  
into two all that are together may be nearly  
equal in size, with no wackings to be  
crowded out by older ones, and next that  
they may have a earlier to sell at one time  
nearly uniform in size, as they know that  
such a lot brings more than one of mixed  
weights varying in size, fatness and shape.

But the Eastern farmer who keeps two  
or more brood sows, expecting to find a  
profit in selling pigs to his neighbors who  
want one or two each year to eat up the  
wastes of the house and the refuse from the  
garden, and to furnish pork for the family  
use, will do well if he has some interval  
between their farrowing. Not every buyer  
will be ready at the same date. Money con-  
siderations or other reasons may lead some  
to prefer to wait longer than others. We  
used under such conditions to have pigs for  
sale for several weeks, and having fixed upon  
a price, whether it was \$5 each or less, the  
first buyer had his choice, and so did those  
who came late, and the last man sometimes  
got the largest and best pig of the lot because  
we had fed it longer. This was, of course,  
after we had selected out such as we wanted  
for breeders, and placed them where they  
would have feed more on hand to grow  
of frame and less adapted to rapid fatten-  
ing.

And we were not afraid by this system of  
having runt pigs left on our hands, if the  
parents were good ones and well cared for  
the pigs would be nearly uniform, and we  
have had a buyer when his choice was  
"Any one of them. Ours is as good as any-  
other for all I can see." But if one was a  
little smaller framed than another we were  
willing to keep it, for we thought by  
liberal feeding we could fatten it quickly,  
and if we had not as heavy a hog at slaugh-  
tering time as some of those had not much  
first choice from the litter, we had not much  
doubt that we made our pork as cheaply as  
they did.

Mr. T. B. Terry tells in the Practical  
Farmer some of the experience of Hoxton  
F. Greeley of South Dakota in caring for  
sheep. When he went there from one of  
the Eastern States, he thought to do better  
than some of his neighbors by giving his  
sheep better care. They fed twice a day,  
and he decided to feed his four or five times  
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